Specifications — MMX 42 Series, MMX 62 Series

Video

Routing
- MMX 42 Series ..... 4 x 2 matrix
- MMX 62 Series ..... 6 x 2 matrix

Gain ..... Unity

Bandwidth ..... 150 MHz (-3 dB), fully loaded
- 0 - 10 MHz ..... no more than 0.1 dB to -0.1 dB
- 0 - 30 MHz ..... no more than 0.5 dB to -0.5 dB

Phase between I/Os ..... <1.28º at 3.58 MHz

Differential phase error ..... 0.1º at 3.58 MHz and 4.43 MHz

Differential gain error ..... 0.1% at 3.58 MHz and 4.43 MHz

Max. propagation of delay ..... 5 ns typical (±1 ns)

Crosstalk ..... -50 dB @ 5 MHz

Switching speed ..... 200 ns (max.)

Video input

Number/signal type
- MMX 42 and MMX 62 composite video models: 4 or 6 composite video
- MMX 42 and MMX 62 S-video models: 4 or 6 S-video

Connectors
- MMX 42 and MMX 62 composite video models: 4 or 6 female BNC
- MMX 42 and MMX 62 S-video models: 4 or 6 female 4-pin mini DIN

Nominal level ..... 1 Vp-p for Y of S-video, and for composite video
0.3 Vp-p for C of S-video

Minimum/maximum levels ..... Analog: 0.5 V to 2.0 Vp-p with no offset

Impedance ..... 75 ohms

Return loss ..... <-30 dB @ 5 MHz

DC offset (max. allowable) ..... 1.5 V

Video output

Number/signal type
- MMX 42 and MMX 62 composite video models: 2 composite video
- MMX 42 and MMX 62 S-video models: 2 S-video

Connectors
- MMX 42 and MMX 62 composite video models: 2 female BNC
- MMX 42 and MMX 62 S-video models: 2 female 4-pin mini DIN

Nominal level ..... 1 Vp-p for Y of S-video, and for composite video
0.3 Vp-p for C of S-video

Minimum/maximum levels ..... 0 V to 2.0 Vp-p

Impedance ..... 75 ohms

Return loss ..... -30 dB @ 5 MHz

DC offset ..... ±5 mV maximum with input at 0 offset

Switching type ..... Vertical interval

Sync

Standards ..... NTSC 3.58, NTSC 4.43, PAL, SECAM

Audio

Routing	
MMX 42 Series	4 x 2 stereo matrix
MMX 62 Series	6 x 2 stereo matrix
Gain	
Captive screw models	Unbalanced output: -6 dB; balanced output: 0 dB
RCA connector models	Unbalanced output: 0 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.03% @ 1 kHz at rated nominal level
S/N	>90 dB, output 21 dBu, balanced, at maximum output (unweighted)
Crosstalk	<-80 dB @ 1 kHz, fully loaded
Stereo channel separation	>90 dB @ 1 kHz
CMRR	>75 dB @ 20 Hz to 20 kHz

Audio input

Number/signal type	
Captive screw models	4 or 6 stereo, balanced/unbalanced
RCA connector models	4 or 6 stereo, unbalanced
Connectors	
Captive screw models	(4 or 6) 3.5 mm captive screw connectors, 5 pole
RCA connector models	4 or 6 pairs of female RCA connectors
Impedance	>10k ohms unbalanced/balanced, DC coupled
Nominal level	-10 dBV (316 mV)
Maximum level	+19.5 dBu, (balanced or unbalanced) at 1%THD+N
Input gain adjustment	–18 dB to +24 dB, adjustable per input via RS-232 only

NOTE *0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu*

Audio output

Number/signal type	
Captive screw models	2 stereo, balanced/unbalanced
RCA connector models	2 stereo, unbalanced
Connectors	
Captive screw models	(2) 3.5 mm captive screw connectors, 5 pole
RCA connector models	2 pairs of female RCA connectors
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1 dB channel to channel
Maximum level (Hi-Z)	>+21 dBu, balanced or unbalanced at 1%THD+N
Maximum level (600 ohm)	>+15 dBm, balanced or unbalanced at 1%THD+N

Control/remote — switcher

Serial control port	RS-232, female 3.5 mm captive screw connector, 3 pole
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	1 = TX, 2 = RX, 3 = GND
Program control	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

General

External power supply	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated
Power input requirements	12 VDC, 0.5 A
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or VersaTools® rack shelf, part #60-190-20 or 60-604-20

Specifications — MMX 42 Series, MMX 62 Series (continued)

Enclosure type	Metal
Enclosure dimensions	1.75" H x 8.75" W x 3.0" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 7.6 cm D (Depth excludes connectors.)
Product weight	4.0 lbs (1.8 kg)
Shipping weight	5 lbs (3 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A , VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

(7.51-082704-D3)